

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of the Claims:

1. (Original) A structure of electrically conductive material provided with means for the transmission of electrical energy between spaced locations along the structure, comprising a first layer of electrically insulative material deposited on the structure, one or more electrically conductive tracks deposited on said first layer, and a second layer of electrically insulative material deposited over said electrically conductive track(s), said first and second electrically insulative layers each comprising a ceramic material deposited by a thermal spray process.

2. (Original) A structure according to claim 1 wherein the electrically insulative material in said first and/or second layer is composed predominantly of aluminium oxide.

3. (Original) A structure according to claim 2 wherein the electrically insulative material in said first and/or second layer includes a proportion of titanium oxide.

4. (Original) A structure according to claim 3 wherein the electrically insulative material in said first and/or second layer includes titanium oxide in a proportion of 2-45% by weight.

5. (Original) A structure according to claim 4 wherein the electrically insulative material in said first and/or second layer includes titanium oxide in a proportion of 10-15 or 35-45%.

6. (Currently amended) A structure according to ~~any preceding~~ claim 1 being a length of pipe.

7. (Currently amended) A structure according to ~~any one of~~ claims 1 to 5 being a pipeline for the conveyance of oil or gas.

8. (Original) A structure according to claim 7 being a pipeline in a well.

9. (Original) A method of providing a structure of electrically conductive material with means for the transmission of electrical energy between spaced locations along the structure which comprises the steps of: (1) depositing a first layer of electrically insulative material on the

structure; (2) depositing one or more electrically conductive tracks on said first layer; and (3) depositing a second layer of electrically insulative material over said electrically conductive track(s); said first and second electrically insulative layers each comprising a ceramic material and being deposited by a thermal spray process.

10. (Original) A method according to claim 9 wherein one or more of steps (1), (2) and (3) comprises heating particles of the material to be deposited in a plasma flame and directing a resultant stream of molten or softened such particles towards the structure.

11. (Original) A method according to claim 9 wherein one or more of steps (1), (2) and (3) comprises heating particles of the material to be deposited in a flame produced by combustion of fuel and oxygen and directing a resultant stream of molten or softened such particles towards the structure.

12. (Currently amended) A structure of electrically conductive material provided with means for the transmission of electrical energy between spaced locations along the structure by a method according to claim 10 ~~or claim 11~~.

13. (New) A structure of electrically conductive material provided with means for the transmission of electrical energy between spaced locations along the structure by a method according to claim 11.